



CONSTRUCTION EQUIPMENT

SWO-069430 VOLVO L70H 624496 - HYDRAULIC SYSTEM



Sample No: VCP446677
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-069430



SAMPLE INFORMATION

Sample Number	VCP446677	VCP389329	VCP380962	---
Sample Date	06 Feb 2024	18 Aug 2023	20 Dec 2022	---
Machine Hours	1950	1443	937	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Not Chngd	Not Chngd	---
Sample Status	ABNORMAL	ABNORMAL	ATTENTION	---

SAIIA CONSTRUCTION LLC

4400 LEWISBURG RD
 BIRMINGHAM, AL
 US 35207
 Contact: STEPHANI BRITTON
 sbritton@saiia.com;doug.bogart@wearcheck.com
 T: (205)943-2268
 F: (205)943-2269



OIL CONDITION

Visc @ 40°C	cSt	44.9	44.3	43.3	---
Acid Number (AN)	mg KOH/g	0.38	0.39	0.45	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		▲ 11135	---	▲ 7571	---
Particles >6µm		▲ 2465	---	■ 801	---
Particles >14µm		▲ 181	---	■ 31	---
ISO 4406:1999 (c)		21/18/15	---	20/17/12	---
Silicon	ppm	■ 3	■ 3	■ 4	---
Sodium	ppm	■ 1	■ <1	■ <1	---
Potassium	ppm	■ 0	■ <1	■ 0	---

Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	■ 3	■ 4	■ 3	---
Copper	ppm	■ 2	■ 3	■ 3	---
Lead	ppm	■ <1	■ 2	■ 2	---
Tin	ppm	■ 0	■ 0	■ <1	---
Aluminum	ppm	■ 0	■ <1	■ <1	---
Chromium	ppm	■ <1	■ 0	■ 0	---
Molybdenum	ppm	■ 2	■ <1	■ <1	---
Nickel	ppm	■ 0	■ 0	■ 0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	■ 0	■ <1	■ 0	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	■ 86	■ 73	■ 67	---
Magnesium	ppm	■ 16	■ 6	■ 6	---
Zinc	ppm	■ 446	■ 451	■ 427	---
Phosphorus	ppm	■ 333	■ 338	■ 335	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 1	■ 0	■ 0	---

Depot: SAIBIR
Unique No: 10872171
Signed: Jonathan Hester
Report Date: 12 Feb 2024

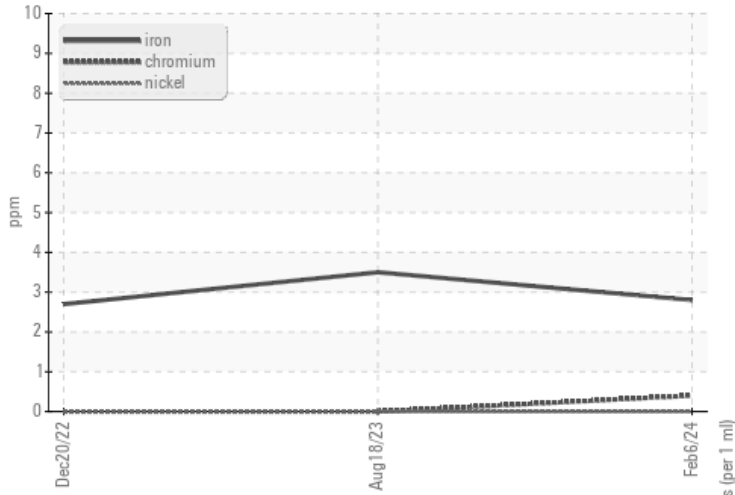


CONSTRUCTION EQUIPMENT

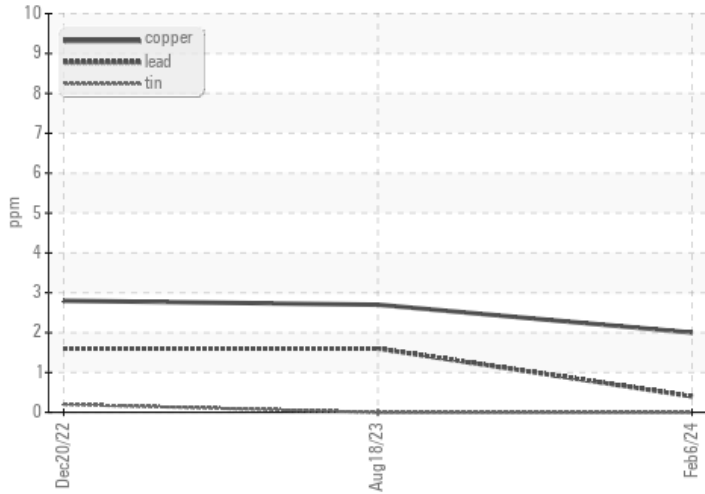


VOLVO GRAPHS

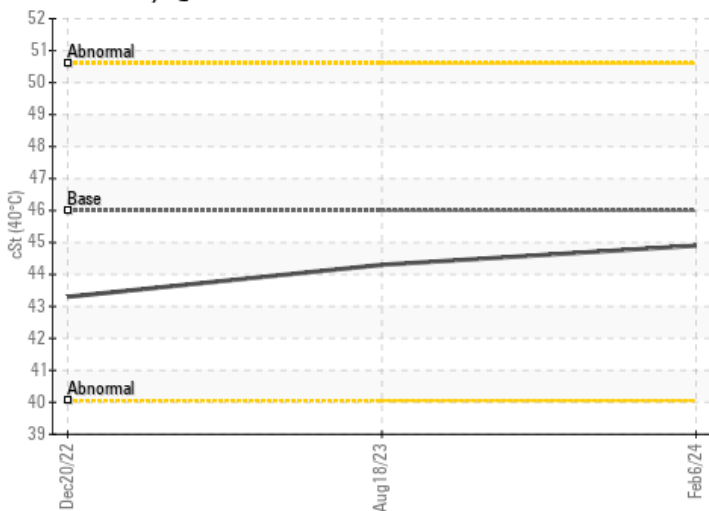
Ferrous Alloys



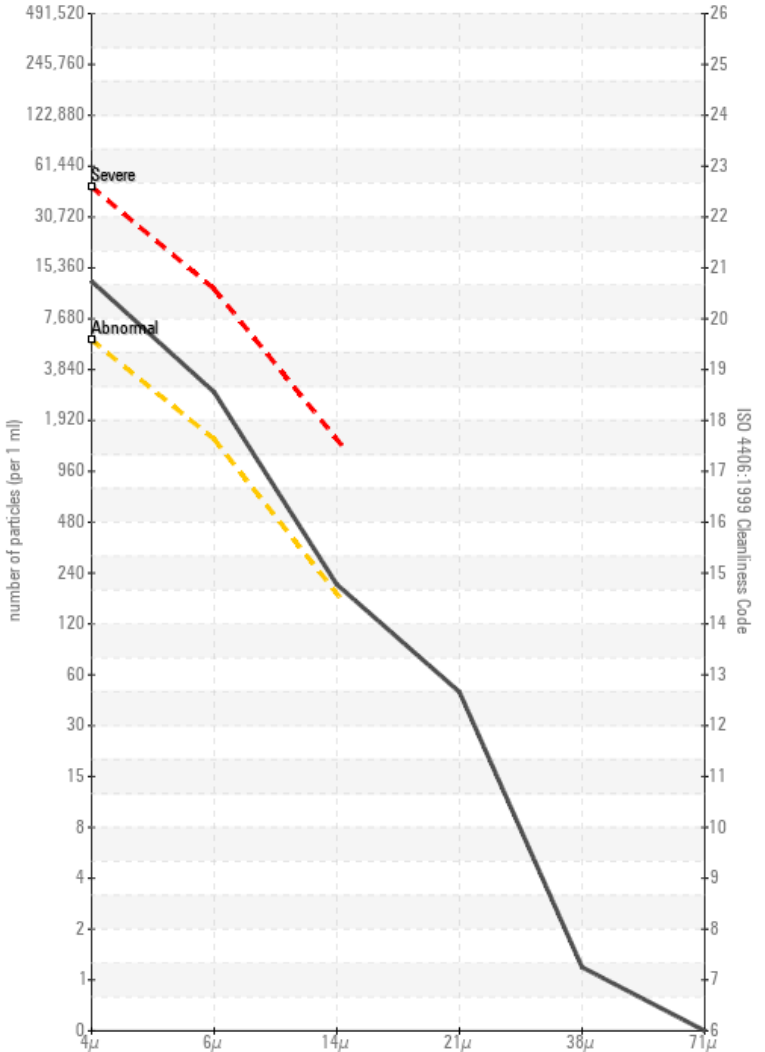
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

